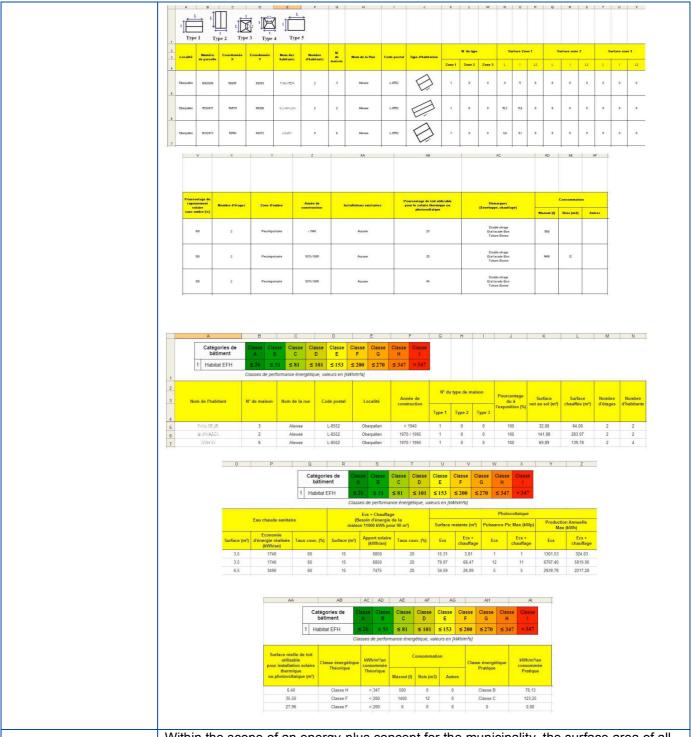




Name of project:	Beckerich	COUNTRY
		Luxembourg
City of project:	Beckerich	
Size/ region affected	Community of Beckerich, 2,200 inhabitants	
Type of project		
[theoretical /	Theoretical	
practical]:		
Targeted technique		
PV/Solar		
thermal/Solar	Solar Photovoltaic and solar thermal	
Passive/Solar Air		
conditioning		
Period/ starting date	03/2009 - present	
Contact institution	Commune de Beekerich, Comise Technique	
with Internet links	Commune de Beckerich, Service Technique Mr. Flore REDING	
(if available)	MI. FIGIE REDING	
Photo / drawings / overview	Total Name Total	

Intelligent Energy Deurope





General Project

Description

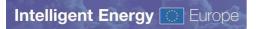
Within the scope of an energy-plus concept for the municipality, the surface area of all roofs was ascertained using orthophotos taken of the municipality. The roof surface areas were classified according to various criteria and the potential solar roof surface area was calculated. Following surveys of the suburban area, corrective factors were defined to take influencing factors such as shade, roof penetration, etc. into consideration. At the same time, the database of the existing installations was updated. The potential was calculated from all the parameters for the following two scenarios:

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	- Solar thermal usage to heat hot water, the remaining surface area for photovoltaic
	usage
	- Solar thermal usage for hot water and heating; the remaining surface area for
	photovoltaic usage
	The results were visualised using a GIS system and integrated into the municipal
	database.
	The database is to be used to make information and awareness-raising activities more
	targeted (e.g.: direct mail).
Initiator/project idea	Community of Beckerich / Energipark Réiden s.a.
Financing Investor	Community of Beckerich
Service Provider	Energipark Réiden s.a.
Other parties	
involved (eg.	
departments)	
Partner responsible	GEMENG
for Best Practice	
description	
3333p.131.	Commune de Beckerich

SWOT Analysis		
Strengths	 Creation of a tool allowing for analysis of the existing additional solar potential in addition to use of this for communication purposes; The GIS option allows for direct follow-up of the solar potential in the municipality; The methodology works even if a local database isn't already in place. 	
Weakness	 Analysis using the additional survey does not work in an urban environment featuring high buildings, meaning that results of the same precision are not available. 	
Opportunities	Use of the solar database as the basis for development of analyses in a general energy database also providing general descriptions of building energy quality (age, renovated or not, etc.). In Beckerich, this option was taken and all buildings were classified following definition of the national	





	energy certificate.
Threats	Another step towards total surveillance coverage of the private area.
Improvements	 The methodology must be improved continuously for an optimal balance to be found between the precise results requirements and costs arising.